

ABSTRACT

For non-contact and non-destructive measurement of surfaces of cast models of a tooth in restorative dentistry, a coherent-radar device, whose measurement direction is brought generally into alignment with the insertion or placement direction for the dental restoration is used, with the help of a real-time video image, which is recorded either in the insertion or placement direction. The sample holder is a commercially available magnetic tilting table. A light source can be used, which has a narrow bandwidth of about 3-40 nanometers.